

Claims

- We claim:
1. A support frame of an image output apparatus for adjusting height of said image output apparatus, said image output apparatus having a housing, said support frame comprising:
a rotatable damping wheel disposed in said housing; and
a supporting foot movably coupled to said housing;
wherein said supporting foot is static to said housing as said damping wheel pushes against a side of said supporting foot forming a positioning state, and said damping wheel rotates to make said supporting foot move relative to said housing for adjusting height of said image output apparatus as said housing is pressed downward, wherein said damping wheel is allowed to rotate in only one direction.
 2. The support frame of claim 1, said support frame further comprising a coupling unit, wherein said damping wheel is coupled to said coupling unit.
 3. The support frame of claim 2, wherein said coupling unit is coupled to and horizontally movable to said housing.
 4. The support frame of claim 3, wherein said coupling unit is coupled to said housing by a first spring, said first spring provides said coupling unit with resilience as said coupling unit horizontally moves relative to said housing.

5. The support frame of claim 1, wherein said supporting foot is coupled to and vertically movable to said housing.
 6. The support frame of claim 5, wherein said supporting foot is coupled to said housing by a second spring, said second spring provides said supporting foot with resilience as said supporting foot vertically moves relative to said housing.
 7. The support frame of claim 1, wherein said damping wheel includes a roller, said side of said supporting foot is a positioning surface corresponding to said roller.
 8. The support frame of claim 1, wherein said damping wheel includes a gear, said side of said supporting foot is a rack meshing with said gear.
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9. A support frame of an image output apparatus for adjusting height of said image output apparatus, said image output apparatus having a housing, said support frame comprising:
 - a supporting foot movably coupled to said housing;
 - a first positioning unit configured to movably push against a side of said supporting foot; and
 - a separating apparatus for driving said first positioning unit to separate from said supporting foot as said housing is pressed downward;wherein said supporting foot is static to said housing as said first positioning unit pushes against a side of said supporting foot forming a positioning state, and as said housing is pressed downward, said separating apparatus is triggered to drive said first positioning unit.

10. The support frame of claim 9, said support frame further comprising a coupling unit, wherein said first positioning unit is coupled to said coupling unit.
11. The support frame of claim 10, wherein said coupling unit is coupled to and horizontally movable to said housing.
12. The support frame of claim 11, wherein said coupling unit is coupled to said housing by a first spring, said first spring provides said coupling unit with resilience as said coupling unit horizontally moves relative to said housing.
13. The support frame of claim 10, wherein said supporting foot is coupled to and vertically movable to said housing.
14. The support frame of claim 13, wherein said supporting foot is coupled to said housing by a second spring, said second spring provides said supporting foot with resilience as said supporting foot vertically moves relative to said housing.
15. The support frame of claim 9, wherein said first positioning unit includes a roller, said side of said supporting foot is a positioning surface corresponding to said roller, and said roller is allowed to rotate in only one direction.
16. The support frame of claim 9, wherein said first positioning unit includes a gear, said side of said supporting foot is a rack meshing with said gear, and said gear is allowed to rotate in only one direction.

17. The support frame of claim 10, said separating apparatus further comprising:
 - a first surface located outside of said housing; and
 - a second surface located inside of said housing;

wherein said second surface touches and drives said coupling unit to move relative to said housing as a force is applied on said first surface, such that said first positioning unit separates from said supporting foot.
18. The support frame of claim 10, said separating apparatus further comprising:
 - a first separating unit disposed on said coupling unit; and
 - a second separating unit disposed on said supporting foot;

wherein said second separating unit touches and drives said first separating unit to move relative to said housing as said housing is pressed downward, such that said coupling unit moves relative to said housing, and said first positioning unit separates from said supporting foot.